

PROCESS LINE EXPANSION, BASF CORPORATION

Confidential Location



Client Name:
BASF Corporation

Services Provided:
Preliminary Design
Project Cost Estimate
Detailed Design:
Civil
Structural
Mechanical
Process
Piping
Electrical
Instrumentation

O'Neal provided preliminary design, a project cost estimate and the detailed design for the installation of equipment and facilities to support the production of a new product for BASF's Specialty Products Division.

The project included equipment modifications and new equipment installations at several areas of the plant site. O'Neal engineers worked with BASF to arrange the process so that it not only met BASF's design parameters, but would also work with the configuration of the existing area. Care was taken to ensure that the process areas remained operational until the scheduled shutdown, with safety as the primary concern.

O'Neal worked closely with the BASF personnel to identify existing equipment, valves, piping, wiring and instrumentation that could be reused to reduce the overall project cost. This resulted in the development of detailed design documents that incorporated the existing systems that were to be reused as part of the process modifications.

Equipment installation included:

- Relocating and modifying several tanks/vessels
- Modifications to an existing reactor
- Process condensers and heat exchangers
- Process pumps
- Vacuum system
- 120,000-gallon product storage tank
- Thermal oxidizer system
- Truck and railcar unloading systems
- Refrigerated storage building